

Fig. 1(a)

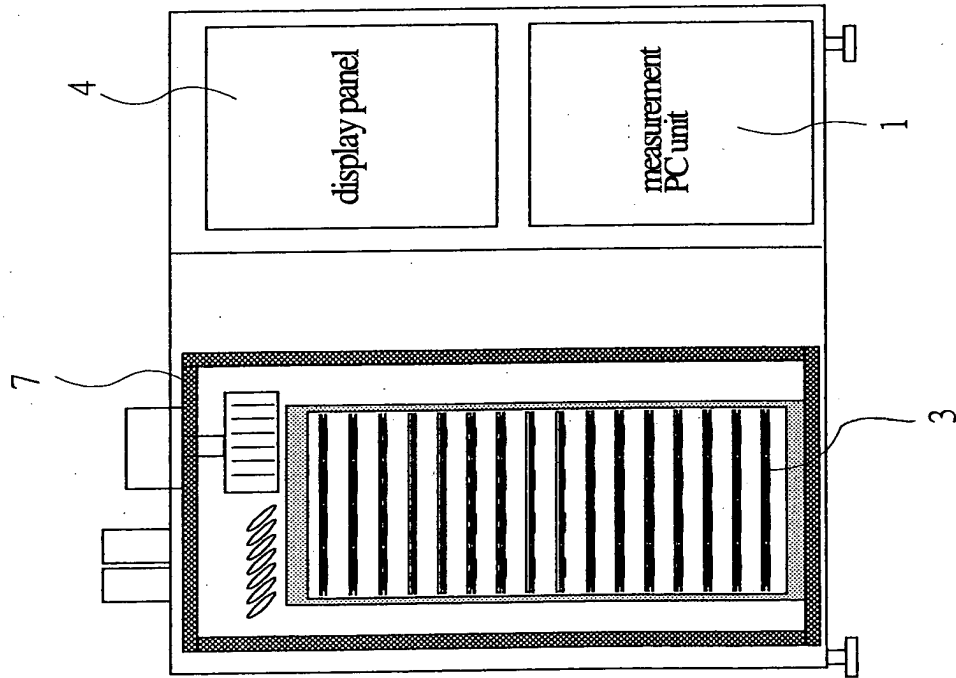


Fig. 1(b)

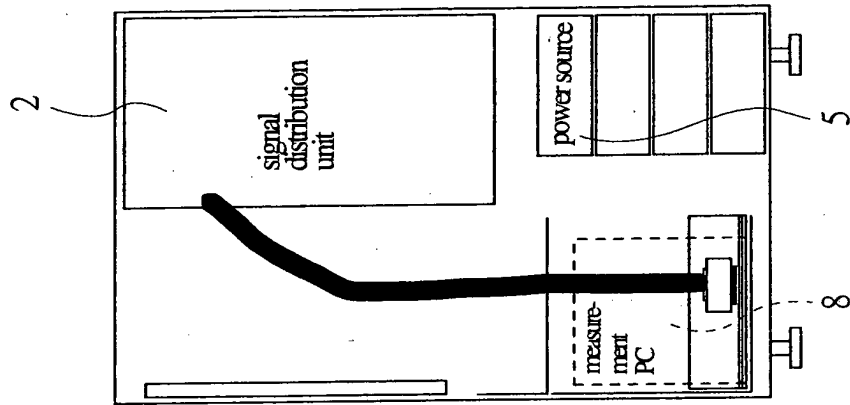


Fig. 1(c)

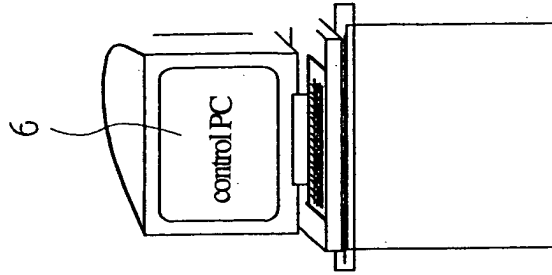


Fig. 2

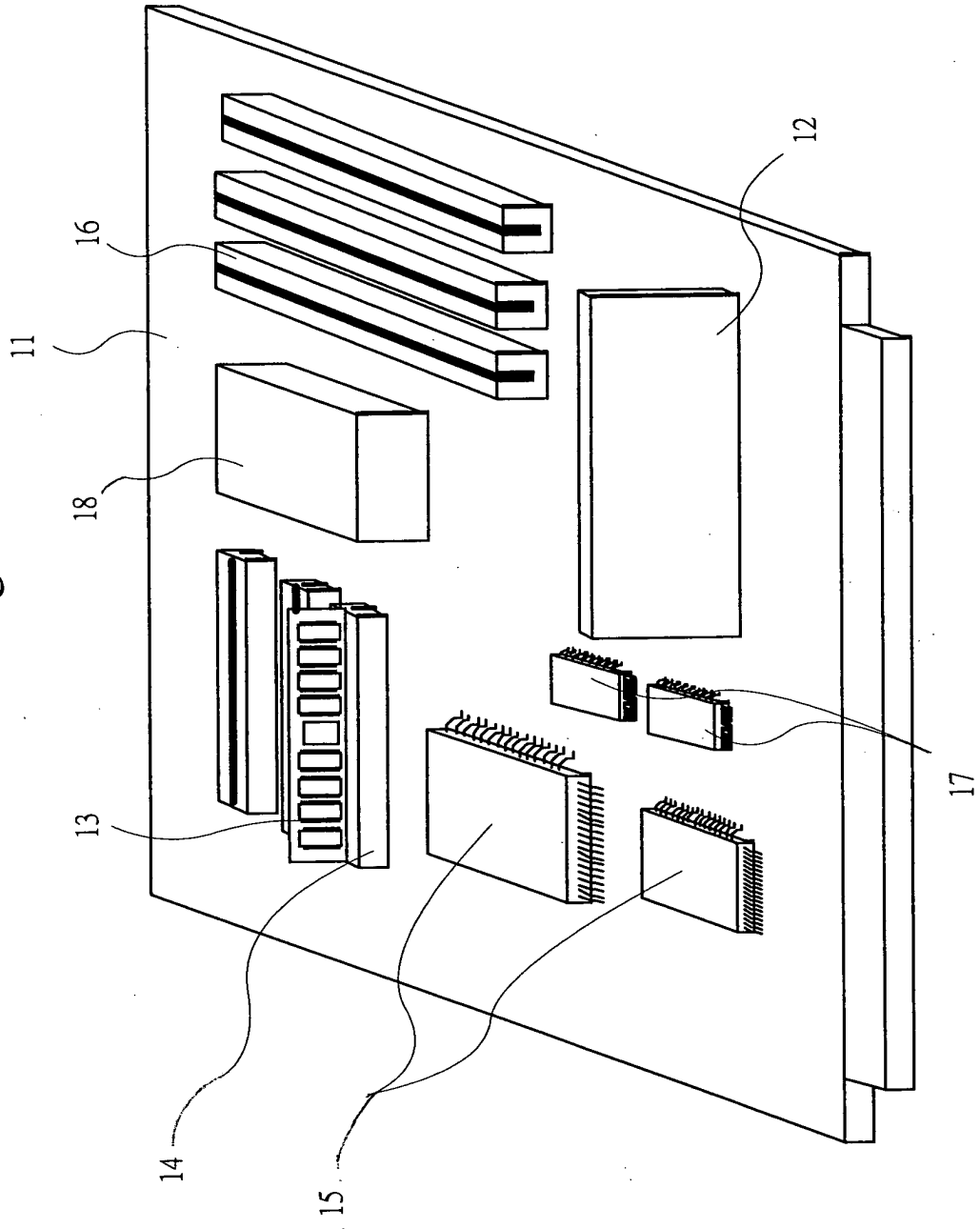


Fig. 3

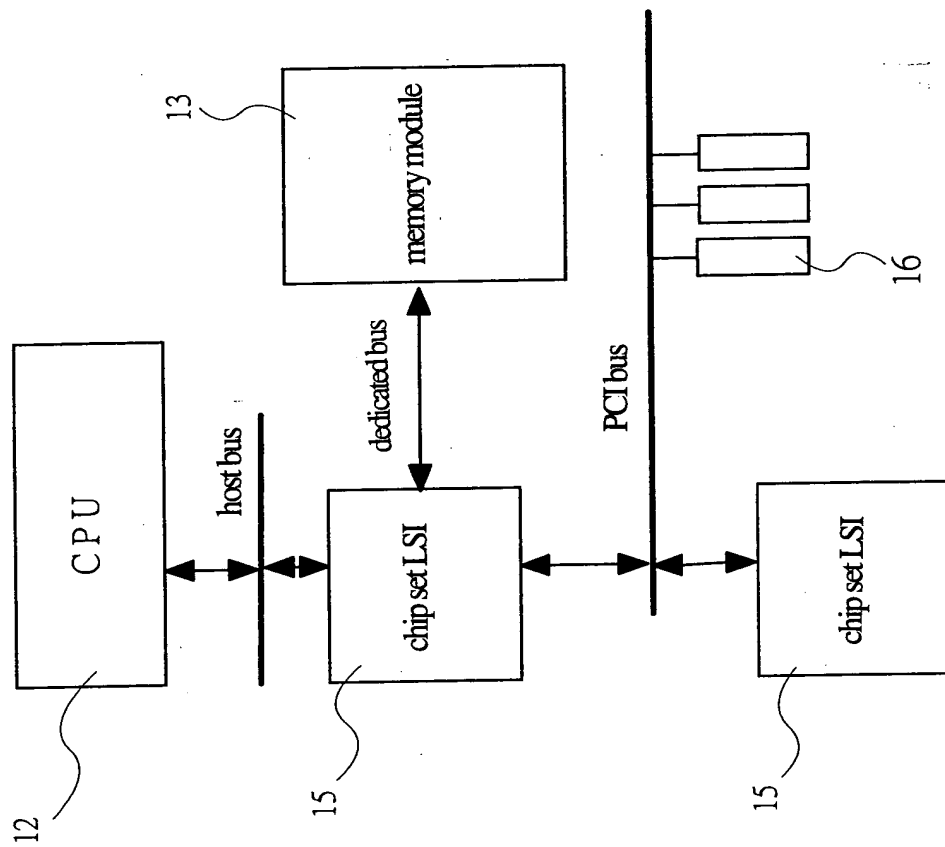


Fig. 4(a)

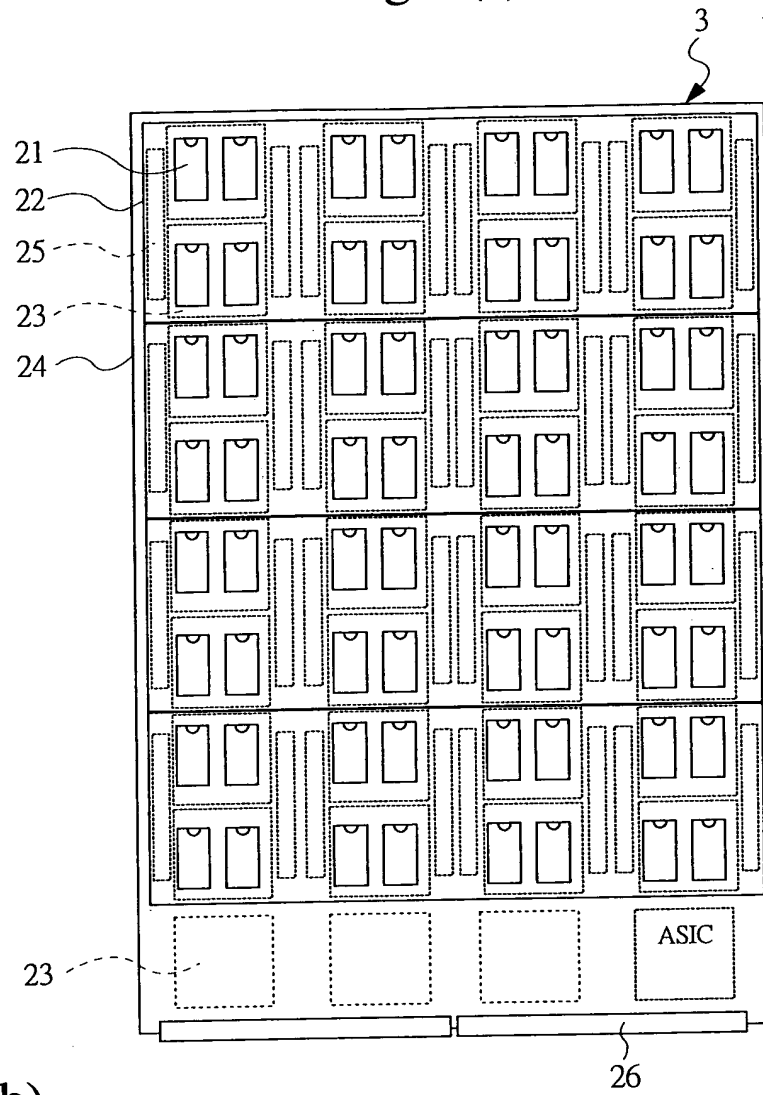


Fig. 4(b)

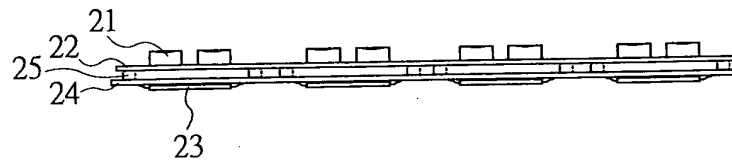


Fig. 5(a)

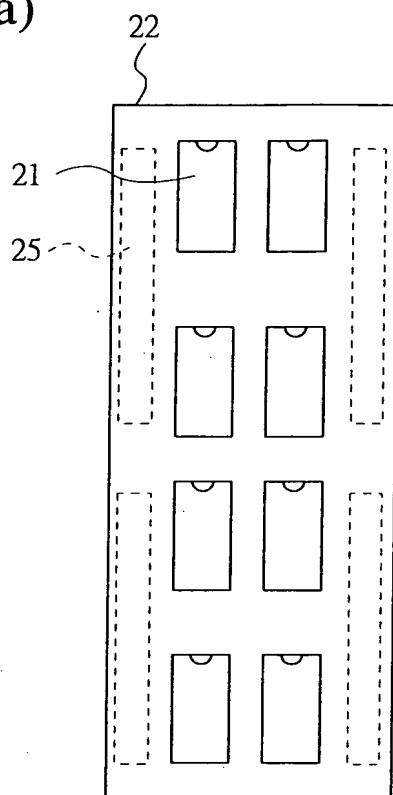


Fig. 5(b)

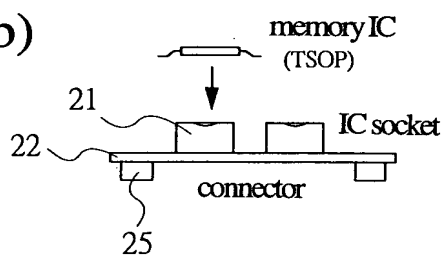


Fig. 6(a)

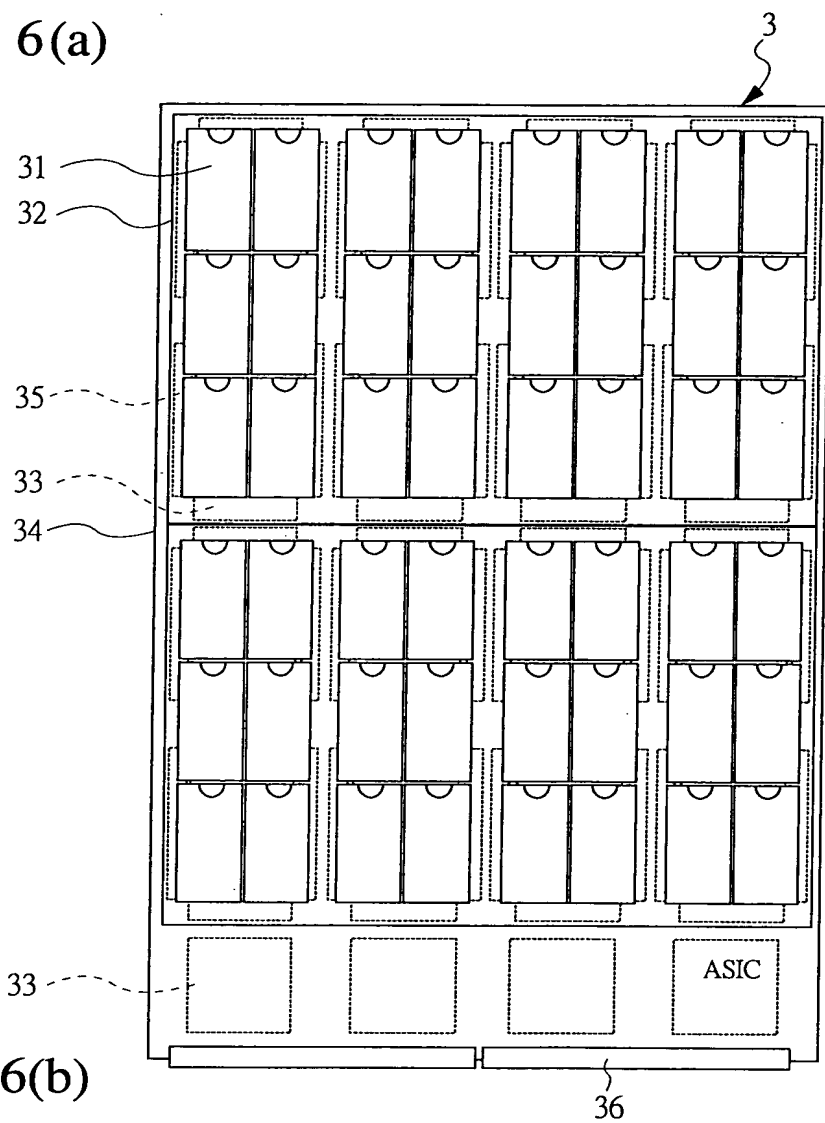


Fig. 6(b)

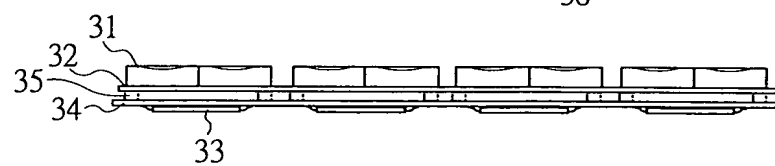


Fig. 7(a)

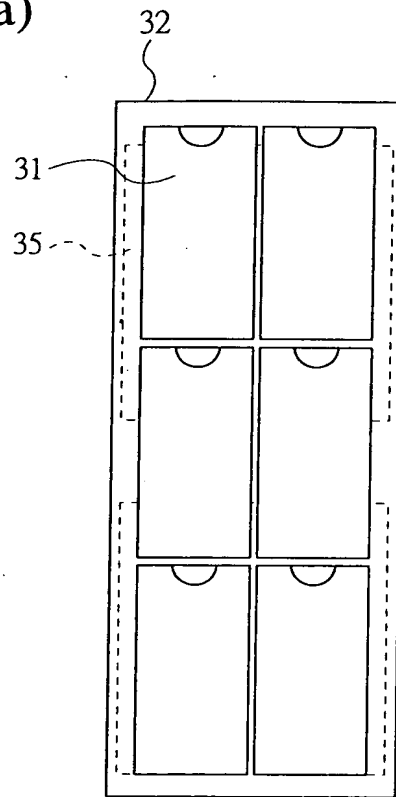


Fig. 7(b)

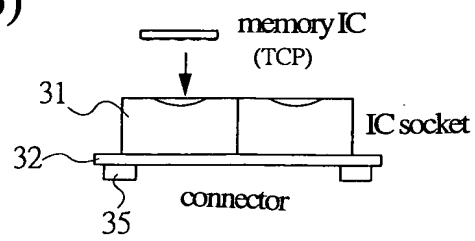


Fig. 8

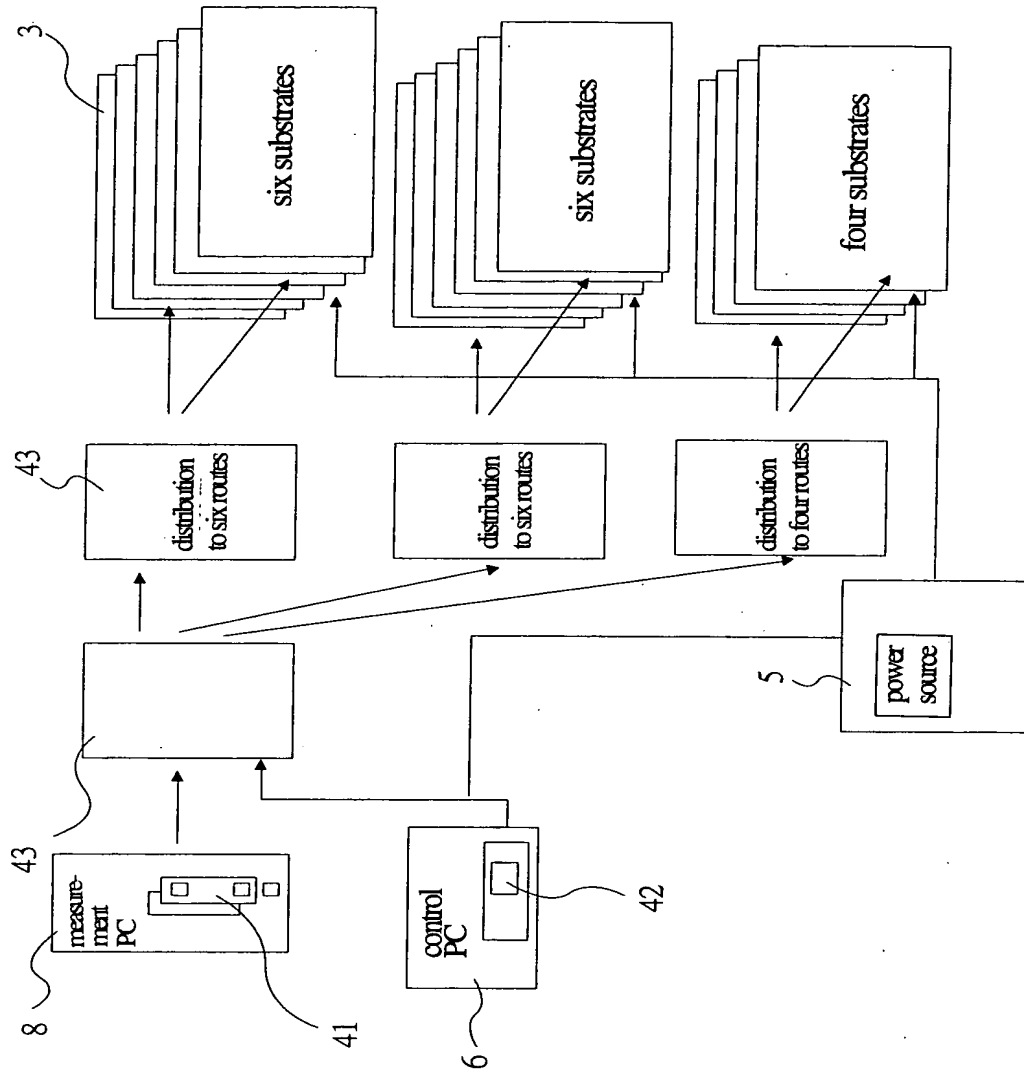


Fig. 9

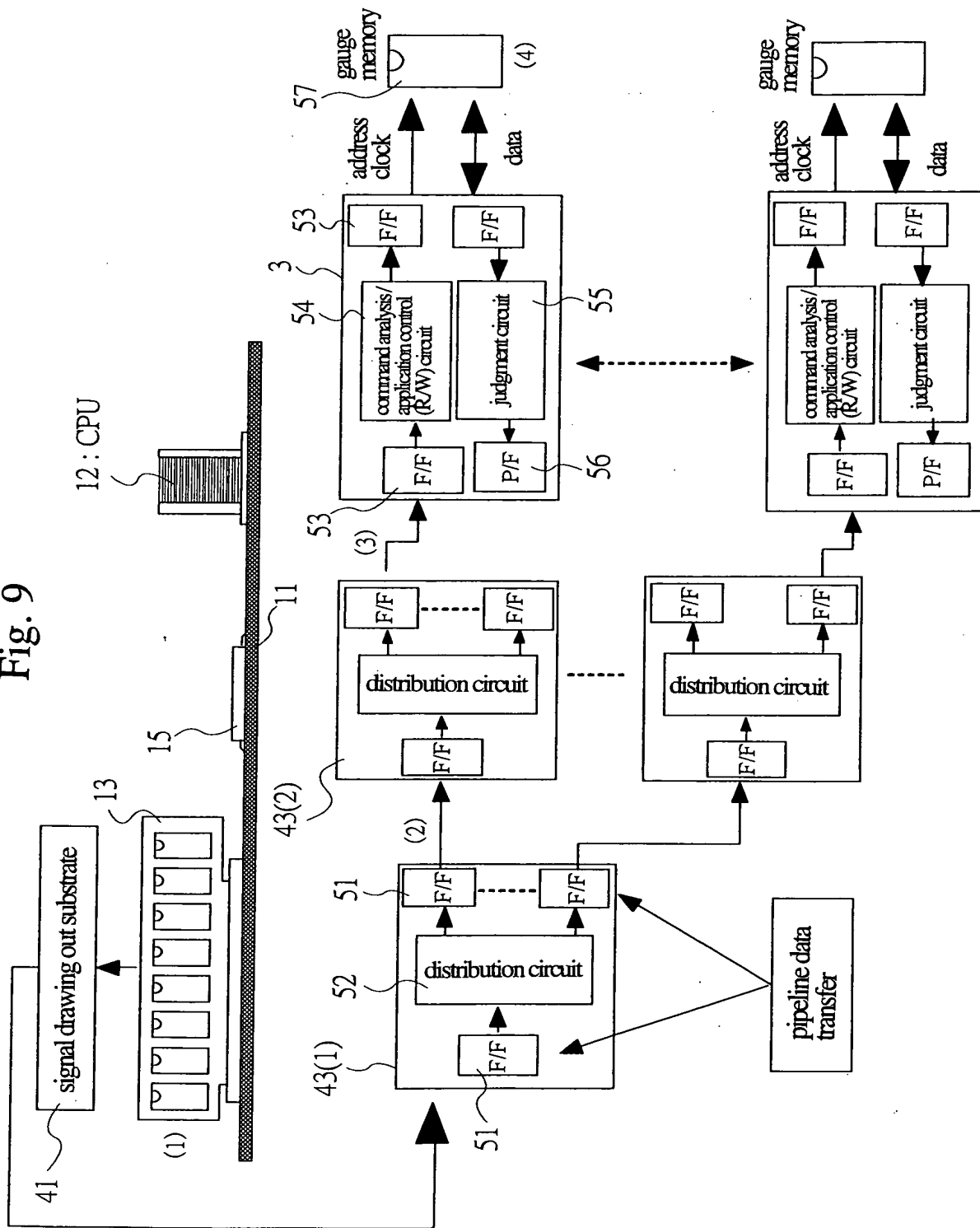


Fig. 11

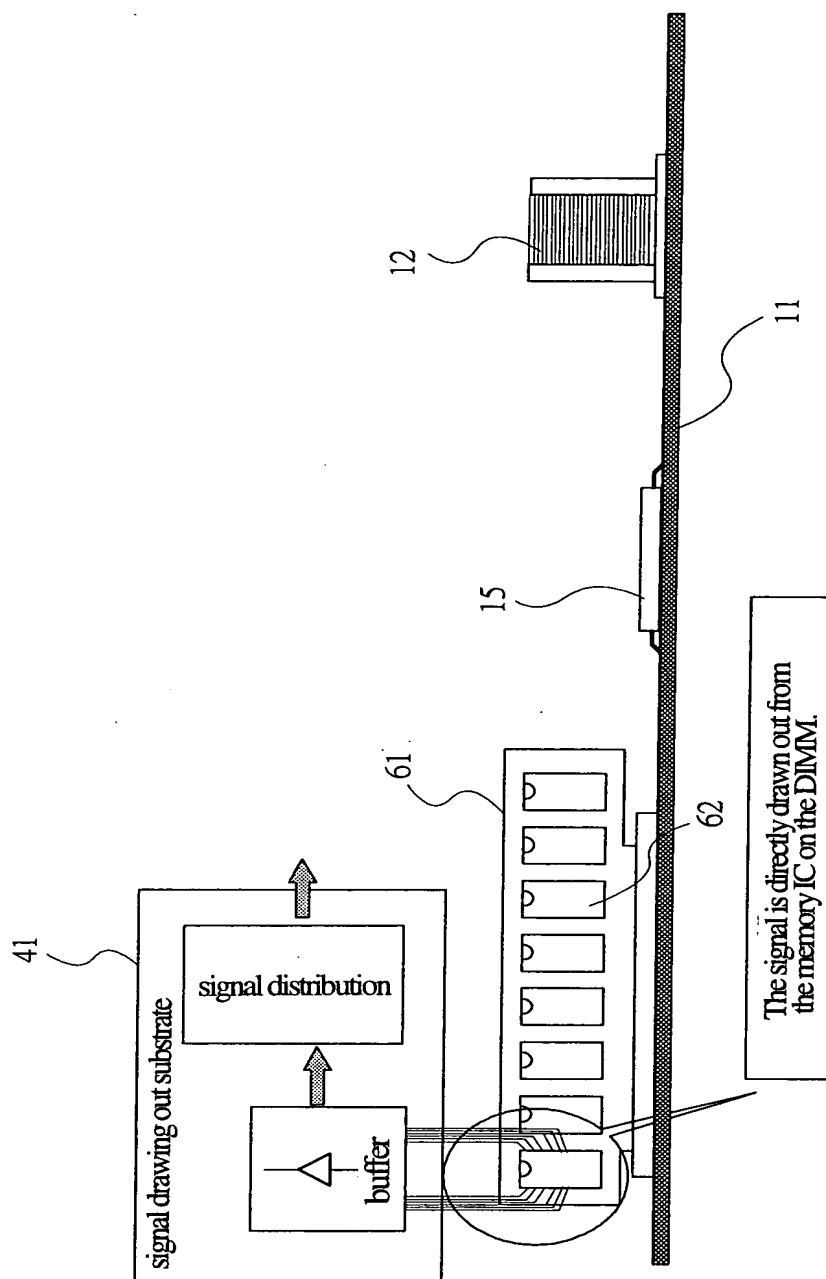


Fig. 12

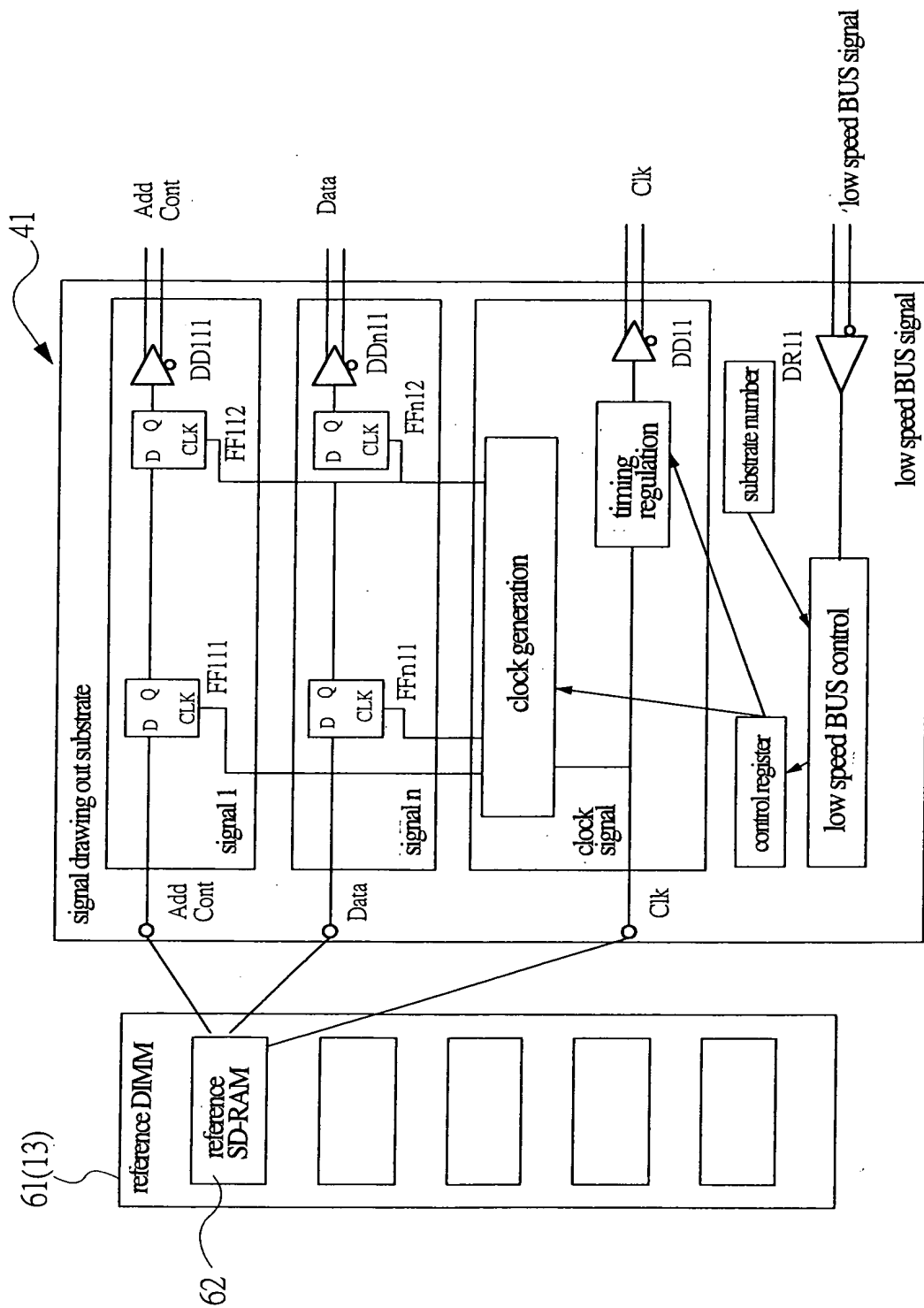


Fig. 13

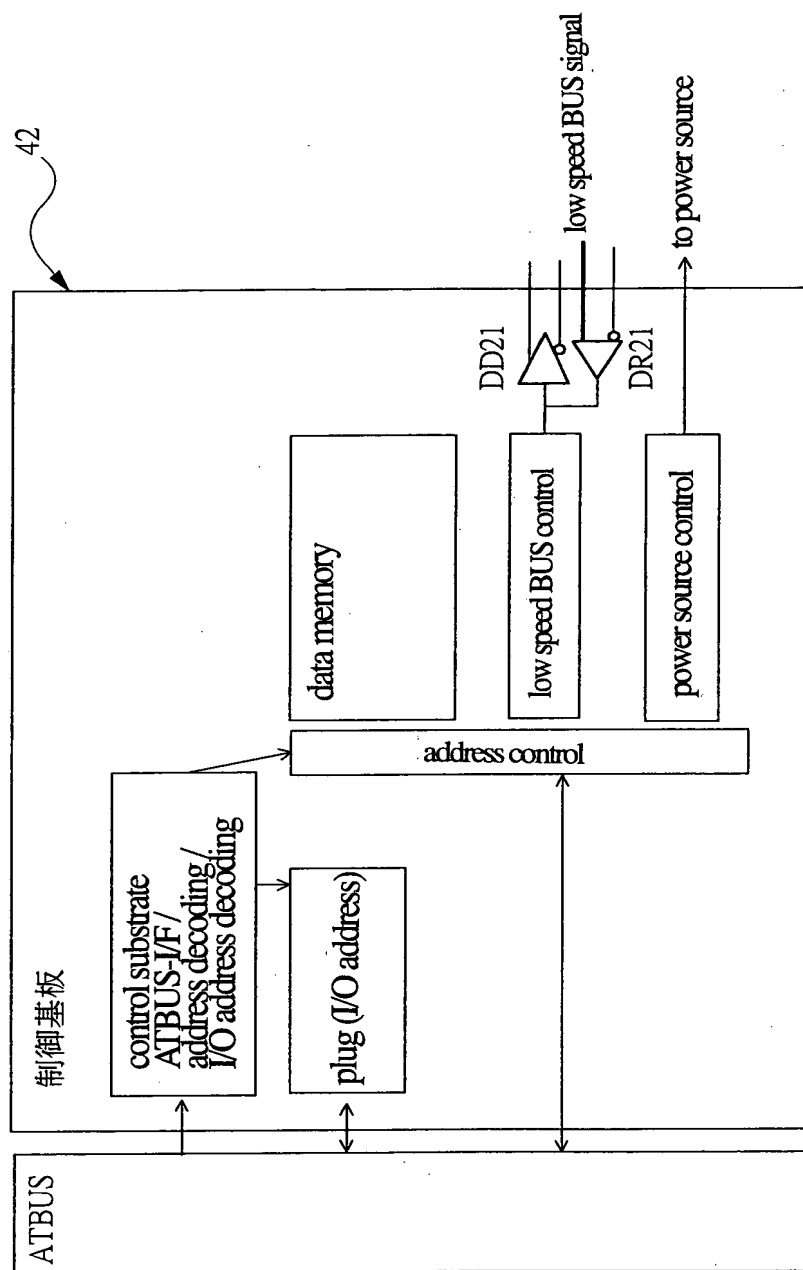
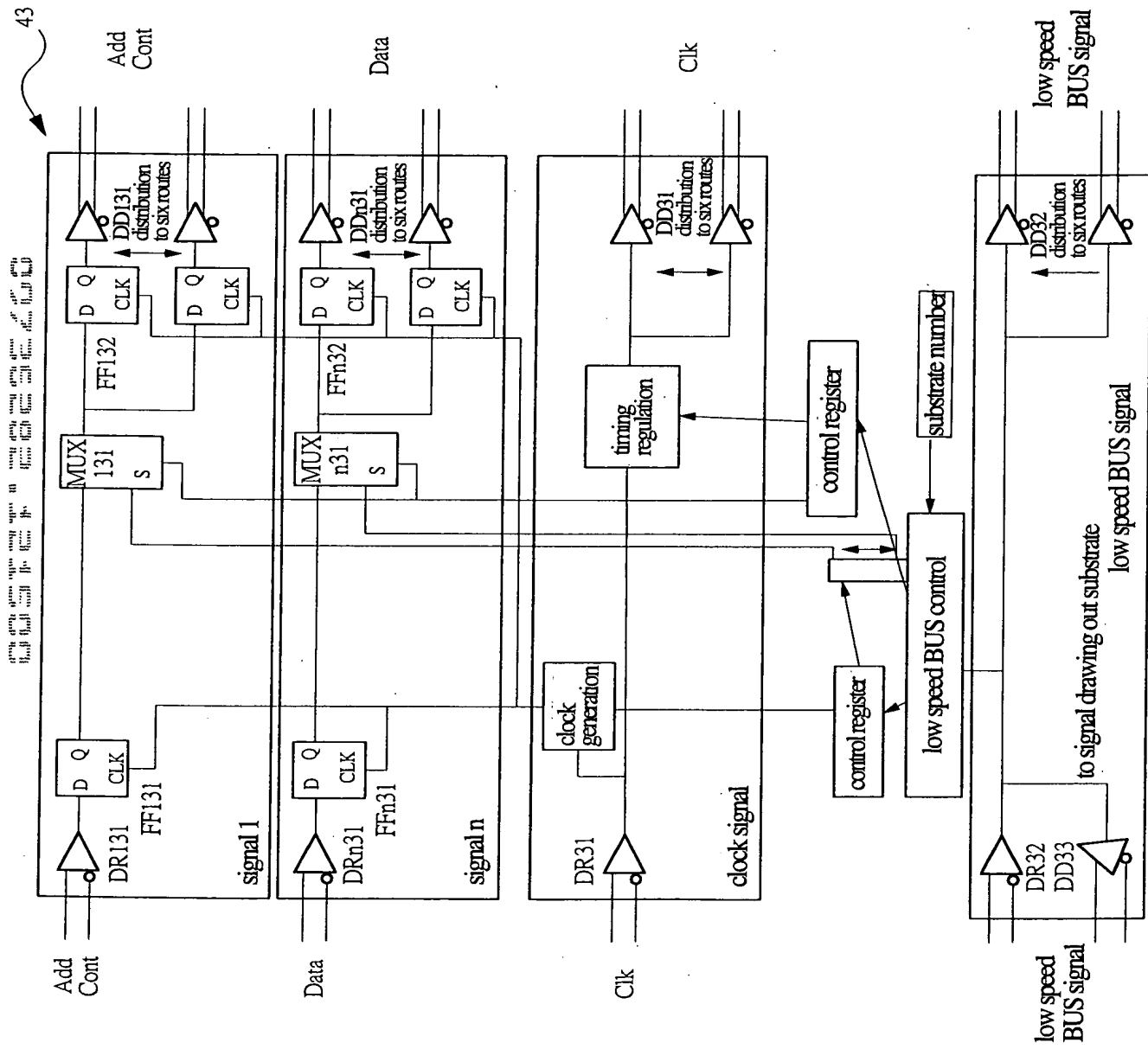


Fig. 14



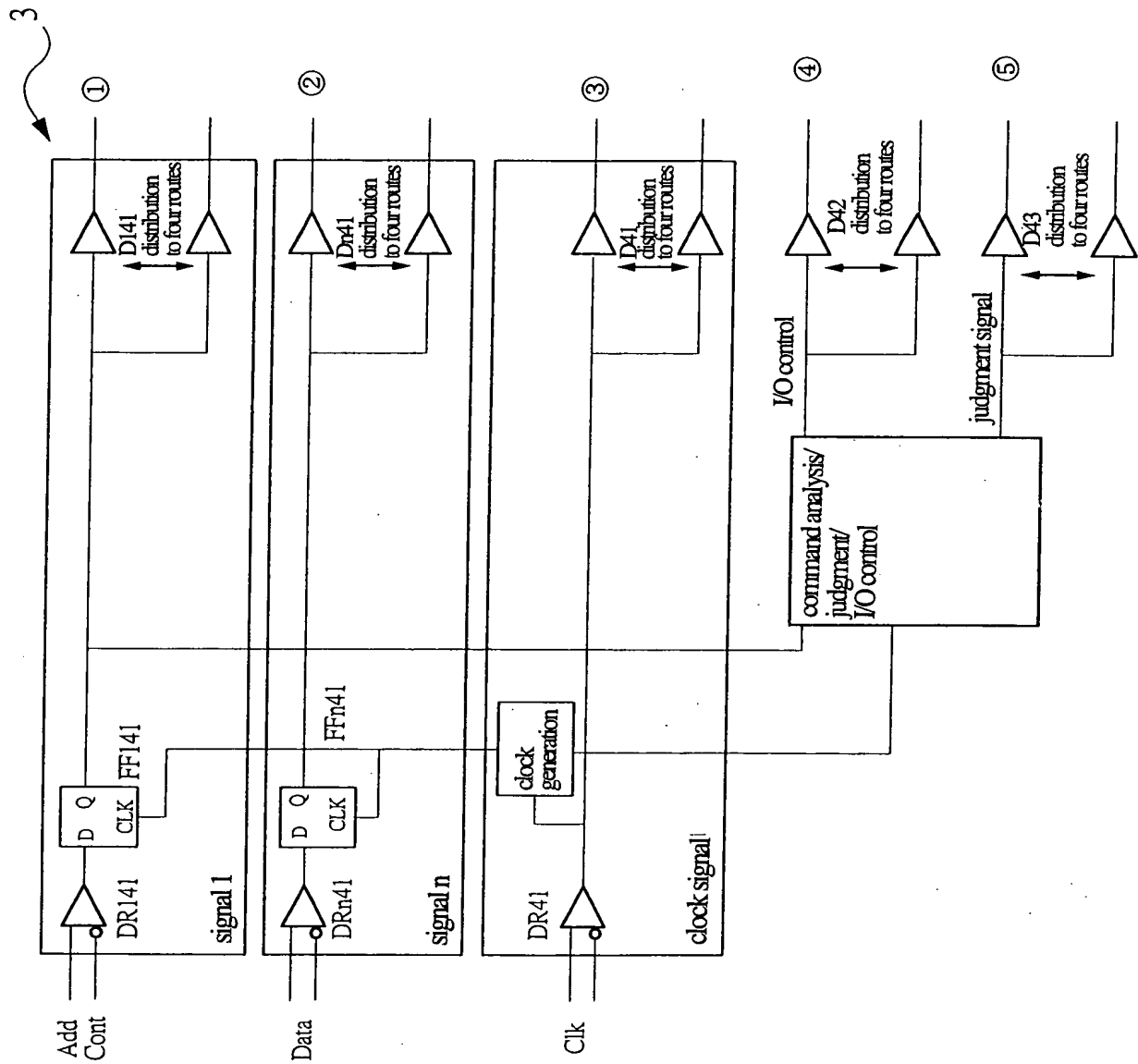


Fig. 16

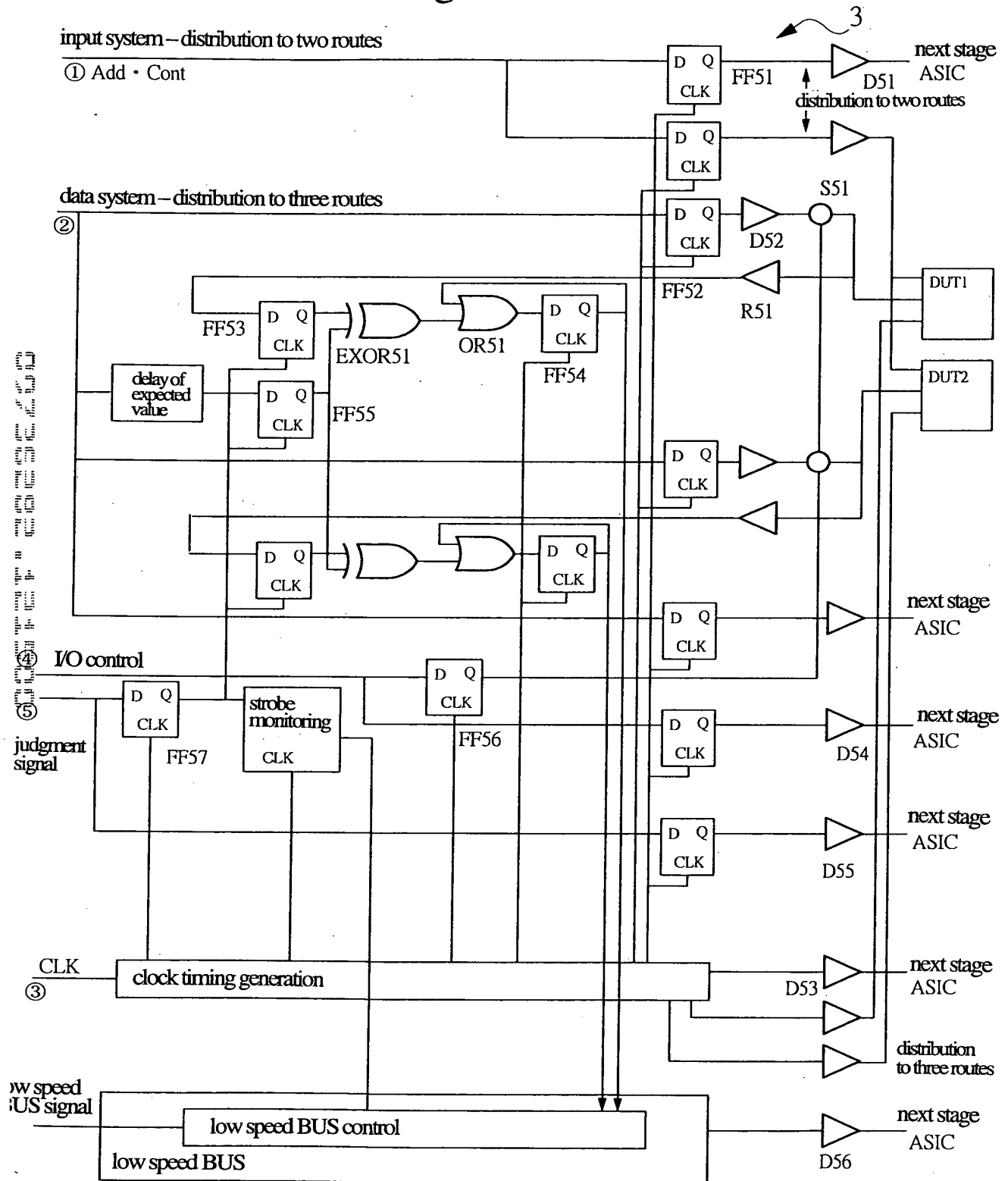


Fig. 17

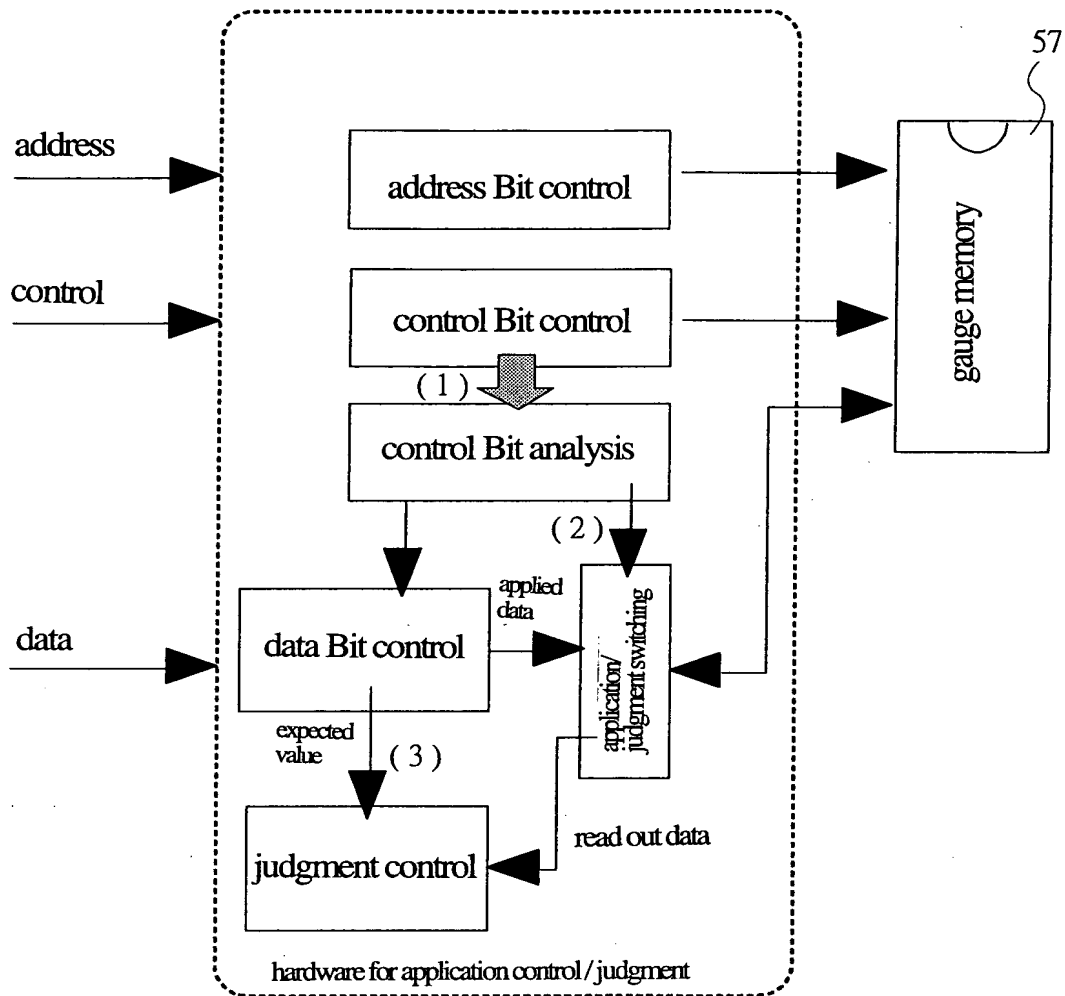
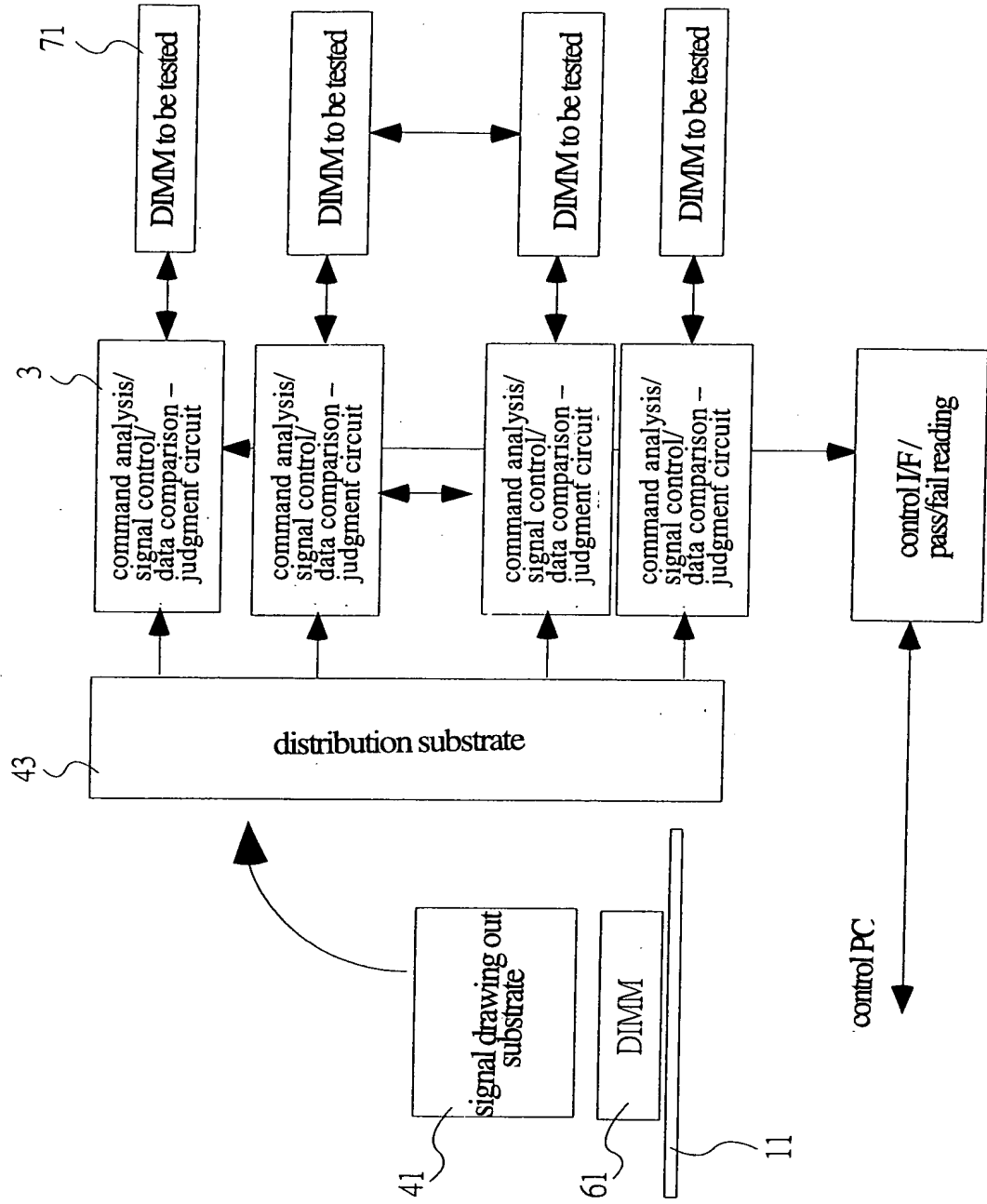


Fig. 18



1. H^+ ions are not lost from fluid flow
 2. H^+ ions are lost from fluid flow
 3. H^+ ions are not lost from fluid flow
 4. H^+ ions are lost from fluid flow

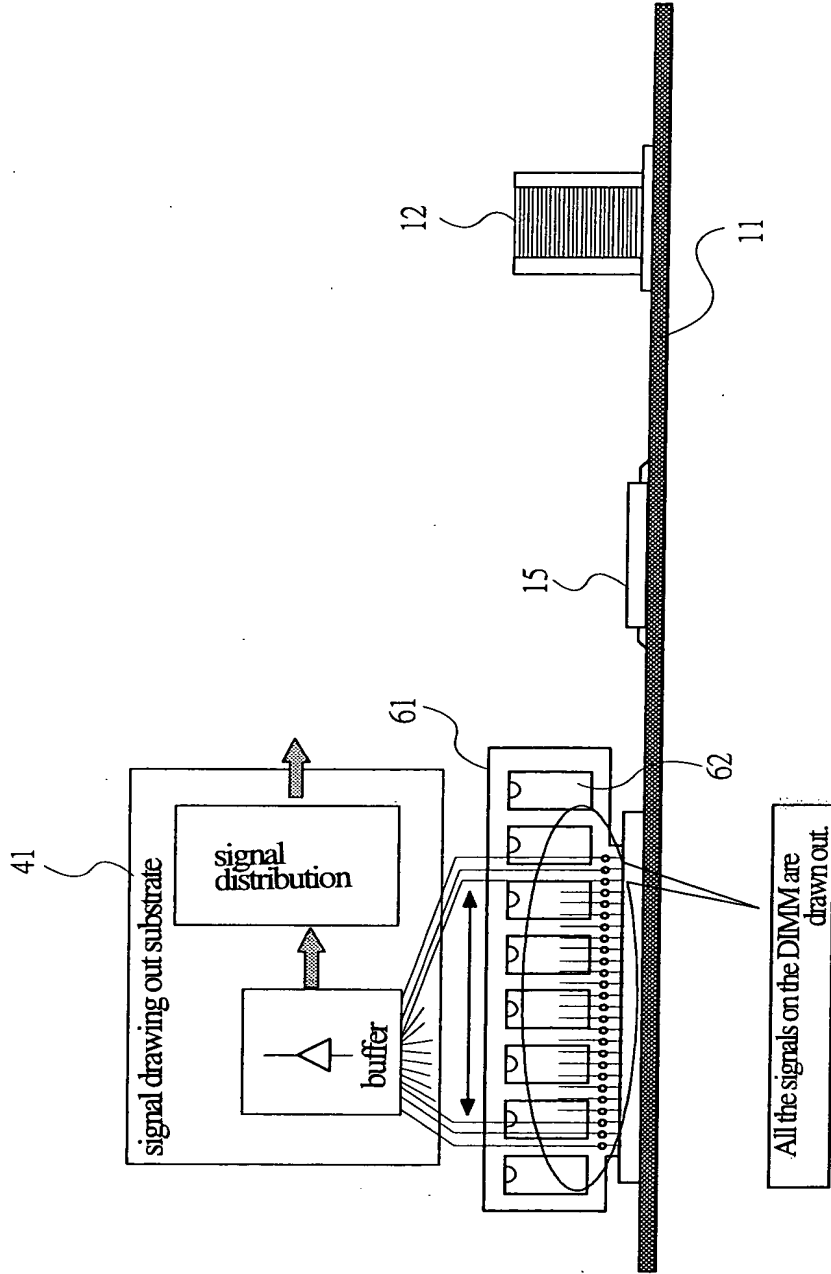


Fig. 20

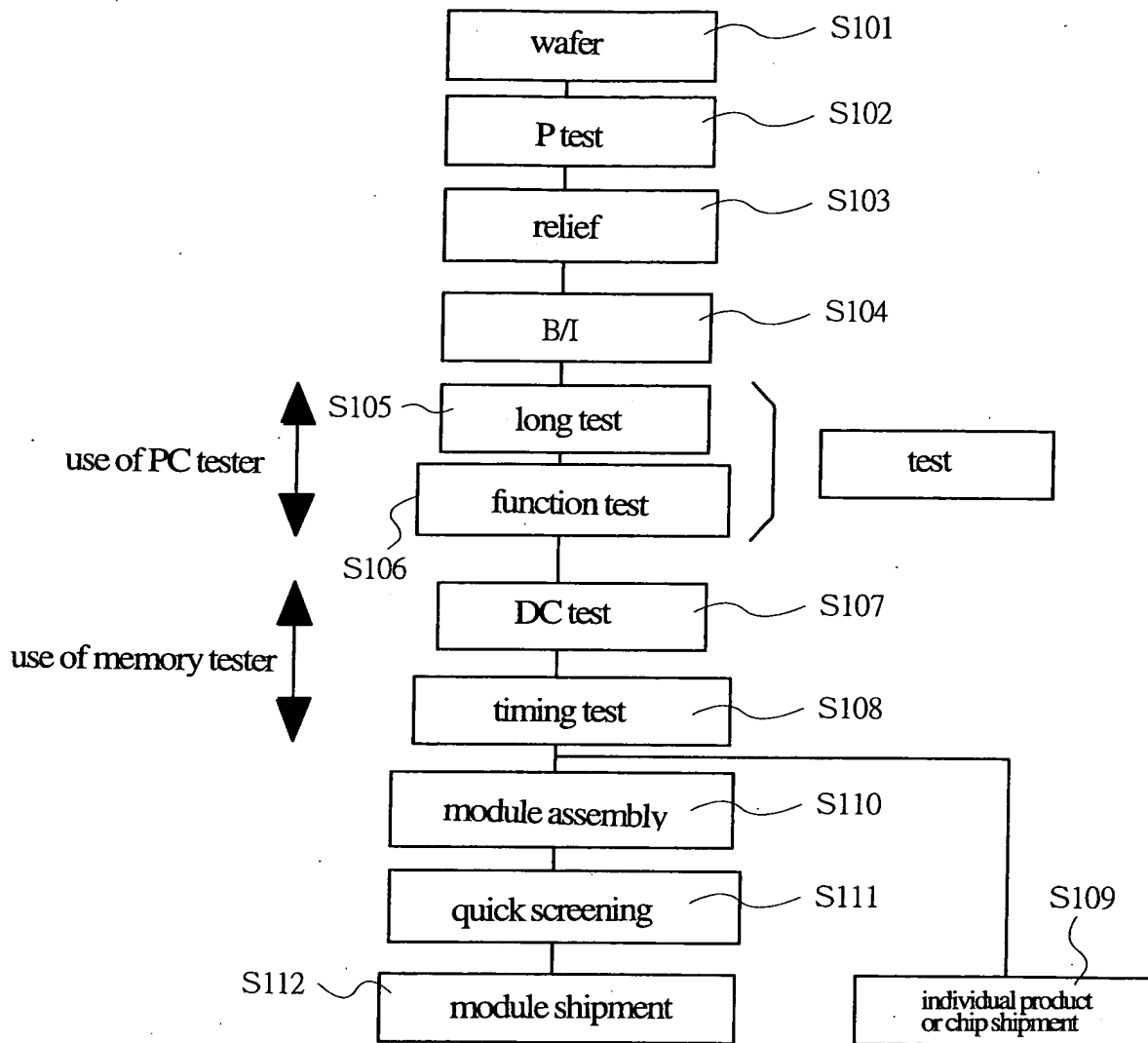


Fig. 21

